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PD - 2001-08-31

PR - JP20000048911 20000221

OPD - 2000-02-21

TI - MOVING AGENT WITH ELECTRONIC SIGNATURE

IN - MIYAO TAKESHI;KATO HIROMITSU;FURUYA MASATOSHI

PA - HITACHI LTD

IC - G06F15/16 ; G06F9/06

TI - Mobile agent for information collection and monitoring apparatus, transmits electronic signature to the server, and receives confidential key, server discriminative information and work-plan report from the server

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PA - (HITA ) HITACHI LTD

IC - G06F9/06 ;G06F15/16

AB - JP2001236333 NOVELTY - Mobile agent is connected to communication network for transmitting electronic signature to a server. Server transmits confidential key, discriminative information of the server, work-plan report, work content and operation result to the mobile agent in response to the electronic signature received from the mobile agent.

- USE - For information collection and monitoring apparatus.

- ADVANTAGE - Prevents the acquisition of information from the server by a malicious mobile agent and apparatus.

- DESCRIPTION OF DRAWING(S) - The figure shows the information collection and monitoring system using the mobile agent. (Drawing includes non-English language text).

- (Dwg.9/9)

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AB - PROBLEM TO BE SOLVED: To disable a malicious moving agent to operate built-in equipment when the built-in equipment connected to a network is operated and monitored and information is gathered by using a moving agent.

- SOLUTION: A moving agent that an agent server connected to a communication network sends is a moving agent with electronic signatures which consists of identification information on the agent server, an electronic signature composed of the secret key of a reliable 3rd-party authentication station for the identification information, operation contents or an operation plan report showing an operation result, and an electronic signature composed of the secret key of the agent server for the operation plan report.

Another server connected to the communication network has a means for authenticating the validity of the moving agent with the electronic signatures and the moving agent with the electronic signatures that the agent server sends moves to built-in equipment through a validity authenticating server.

- G06F15/16 ;G06F9/06